

PO Box 4000 | 44865 Loudoun Wafer Way | Ashburn, VA 20146 Tel 571.291.7700 | Fax 571.223.2910

June 8, 2013

Mr. Douglas Frasier Commonwealth of Virginia Department of Environmental Quality Northern Virginia Regional Office 13901 Crown Court Woodbridge, VA 22193

Subject:

Elysian Heights STP

VPDES Permit No. VA0092380

Dear Mr. Frasier:

Please find enclosed Loudoun Water's submission for re-application of the referenced permit.

Should you have any questions, please feel free to contact me at 571.291.7835.

Sincerely,

Bruce Ringrose, PE

Manager of Community Systems

R. Bruce Ringrose

CC: Tom Broderick - Loudoun Water

Tom Bonacquisti – Loudoun Water Les Morefield – Loudoun Water

Frank Spitzer - Loudoun Water

Enclosures:

General Form 1

NPDES Form 2A - Application for Permit To Discharge Municipal Waste From POTWs

VPDES Sewage Sludge Permit Application Form

VPDES Permit Application Addendum

Public Billing Notice

TOPO and 3D TOPO Map for Elysian Heights

Map Sludge Route

Flow Process Diagram



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nuestions	vou must submit	t this form and the supplement	tal for	m lis	ted in the	parenthesis following	the questio	n, Mark "X	(" in the box in t	the th	ird co	lumn 🧺
if the supr	olemental form is	attached, if you answer "no"	to ea	ch a	uestion, y	ou need not submit any	y of these fo	orms. You i	may answer "no	if yo	our ac	tivity
is excluded	d from permit req	uirements; see Section C of the	instru	ctio	ns. See alsi	o, Section D of the inst	ructions for	r definition	s of bold-taced			1.00
	SPECIFIC C	QUESTIONS	YES	AAR No	FORM	SPE	CIFIC QUE	STIONS		Y 8 5	NO	FORM O
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which	results in a discl	icly owned treatment works harge to waters of the U.S.?	x	l	X .	. include a concen	trated anin	nal feeding	operation or	1.	Х	
(FORM				17		aquatic animal pr discharge to water				. 10	20	
		currently results in discharges		X	7.6	D. Is this a proposed					X	•
	ers of the U.S. o above? (FORM 2)	other than those described in C)		23	24	in A or B above) waters of the U.S.			a discharge to	. 25	26	-27 °V
		ty treat, store, or dispose of	ГΤ	-		F. Do you or will yo	ou inject at	this facilit				
	ous wastes? (FOR			X		municipal effluent taining, within c					X	
			20	29	30	underground sour	ces of drink	king water?	(FORM 4)	31	32	33/2
		ct at this facility any produced nich are brought to the surface				H. Do you or will yo						
in cont	nection with conv	rentional pil or natural gas pro-		X		cial processes suc				-	X	
		sed for enhanced recovery of ect fluids for storage of liquid			٠.	tion of fossil fue						
		sed stationary source which is	24	\38	76	(FORM 4)	oronored d	totionne.	mana subjeb je	37	33	^ %30 <u>2</u> (8)
one of	the 28 industri	al categories listed in the in-				NOT one of the	28 industr	ial categori	es listed in the			
		vill potentially emit 100 tons pollutant regulated under the		X		instructions and per year of any a					X	
Clean	Air Act and ma	v affect or be located in an				Air Act and may	affect or b			<u> </u>		
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15 16 - 29 20 IV. FACILI	TY CONTACT	>	, ZQ 6-5.		, <u>, , , , , , , , , , , , , , , , , , </u>				And the second second			
· ·		A. NAME & TITLE (last, fit		title)	r en est		. В. РН	IONE (area	code & no 🧨 🖓		7	
o Dale H	lammes, Gene	eral Managor	71			, , , , , , , , , , , , , , , , , , , 	571	291	7700			
2 Date 11	amines, Gene	an Manager	•			25 25 41	3 46 41		1 22 15		٠	
V. FACILIT	TY MAILING AD	DRESS										
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3 P.O. E	3ox 4000			:		,						
15 16						41		1				
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4 Ashbu	rn	<u></u>					146]		. * * *		
V) FACILI	TY LOCATION		·			46 41 42 47	- 31	<u> </u>				
VI. FACILI		ET, ROUTE NO. OR OTHER S	PECI	FIC	DENTIF	ER			May a grade V.	Vs.		1.74.50
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5 43254	Heavenly Cir	CIE					<u>,</u>					,
'''		B. COUNTY NAME				\$25.00	لت					
Loudo	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	, , , , , , , , , , , , , , , , , , , 	1 1	1	111			•	1			
46			<u> </u>	<u></u>	<u> </u>	70	4 A 2 4 2 4 .	7 (1)	VIEW DOWN		7 3	
		C. CITY OR TOWN 5 100	n na sa	sylfry t	er e	D.STATE E.	ZIP CODE		NTY CODE		٠.,	
6 Leesb	oura	, , , , , , , , , , , , , , , , , , , 	1 1	1	,	VA 201	176			ortenia Ortenia		54cu
15 15		<u> </u>				40 41 92 47	21	1 12	• • • • • • • • • • • • • • • • • • • •		3. T	1.40

CONTINUED FROM THE FRONT				·	<u> </u>
VII. SIC CODES (4-digit, in order of priority)					
A. FIRST				B. SECOND	
7 N/A (specify) Sewage System	· · · · · · · · · · · · · · · · · · ·	7 N/A	(specify) N/A		· · · · · · · · · · · · · · · · · · ·
C. THIRD		5 1 1 1	(specify)	D. FOURTH	
7 N/A N/A N/A		7 N/A	N/A		
VIII. OPERATOR INFORMATION					B. Is the name listed in
<u> </u>	A NAME	1111			Item VIII-A also the owner?
8 Loudoun County Sanitation Authority	**************************************		 		X YES □ NO
C. STRATUS OF OPERATOR (Enter the appro	priate letter into the answ	er box, if "Other",	specify.)	D. PHONE	(area code & no.)
F = FEDERAL M = PUBLIC (other than fe S = STATE O = OTHER (specify) P = PRIVATE		specify)			7700
E, STREET OR		The water	2 PM 4 275		
P.O. Box 4000					
F. CITY OR TOWN		G.STATE	H. ZIP CODE	IX. INDIAN LAND	
B Ashburn		VA	20146	Is the facility located	d on Indian lands?
13 84	An an is	40 41 42	47 (1) (-) (-) (-)		
X. EXISTING ENVIRONMENTAL PERMITS		D	Allierra Lacad		200
A. NPDES (Discharges to Surface Water)	D. PSD (Air Emission	s from Proposea S	ources)		
9 N VA0092380	9 P N/A				
B. UIC (Underground Injection of Fluids)		R (specify)			
9 U N/A	9 N/A	1 1 1 1	(speci	ולא)	
15 16 17 11 30 C. RCRA (Hazardous Wastes)	15 16 17 18 F OTHS	ER (specify)	30		
ETTI NATTI I I I I I I I	दत्त हो ।	1 1 1 1	(speci	1. Sept. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	· · · · · · · · · · · · · · · · · · ·
9 R 1 1VA,	9 N/A		30		
XI. MAP		Target Towns of the Control of the Control	The same of the same	and we have the control of the contr	
Attach to this application a topographic map the outline of the facility, the location of ea treatment, storage, or disposal facilities, and	ich of its existing and p	proposed intake	and discharge	structures, each of i	its hazardous waste 💠
water bodies in the map area. See instructions					
XII. NATURE OF BUSINESS (provide a brief descrip	otion)>			and the Control of the State of	
The Loudoun County Sanitation Authority	is a public body polit	tic and corpora	te created und	der the provisions	of the Virginia
Water and Sewer Authorities Act for the p	ourpose of providing p	oublic water an	d sewer to un	incorporated area	s within Loudoun
County, Virginia. The Elysian Heights STI	P is owned and opera	ated by the LCS	SA, and it trea	ts sewage flow fro	om the Community
of Elysian Heights.	•				
			~	•	•
•	•				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	\$ -				
XIII. CERTIFICATION (see instructions)					
I certify under penalty of law that I have pe	rennally examined and	am familiae üilel	the information	A-4 2	
attachments and that, based on my inquiry application, I believe that the information is false information, including the possibility of	of those persons imm strue, accurate and con	mediately respor mplete. I am aw	sible for obtain	ning the information	on contained in the
A. NAME & OFFICIAL TITLE (type or print)	B. SIGNA	()	,/	. 1	DATE SIGNED
Dale Hammes, General Manager	l al	Jale C. A	favience	es la	6/5/13
COMMENTS FOR OFFICIAL USE ONLY					
c					
15 15					35

EPA Form 3510-1 (8-90)

VPDES Permit Application Addendum

1.	Entity to whom the permit is to be issued: <u>Loudoun County Sanitation Authority</u> Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
2.	Is this facility located within city or town boundaries? Y / \underline{N}
3.	Provide the tax map parcel number for the land where the discharge is located. TM 101 P 373029
4.	For the facility to be covered by this permit, how many acres will be disturbed during the next fixe years due to new construction activities? None
5.	What is the design average effluent flow of this facility?MGD For industrial facilities, provide the max. 30-day average production level, include units:
	In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Y / N If "Yes", please identify the other flow tiers (in MGD) or production levels: Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?
6.	Nature of operations generating wastewater: domestic discharge from residential
	_100% of flow from domestic connections/sources Number of private residences to be served by the treatment works:
	% of flow from non-domestic connections/sources
7.	Mode of discharge: X Continuous Intermittent Seasonal Describe frequency and duration of intermittent or seasonal discharges:
8.	Identify the characteristics of the receiving stream at the point just above the facility's discharge point: X Permanent stream, never dry Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry without effluent flow Lake or pond at or below the discharge point Other:
9.	Approval Date(s): O & M Manual September 13, 2006 Sludge/Solids Management Plan September 13, 2006

Have there been any changes in your operations or procedures since the above approval dates? Y / \underline{N}

PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2.

Agent/Department to be billed:	Bruce Ringrose
Owner:	Loudoun County Sanitation Authority
Applicant's Address:	P.O. Box 4000
	44865 Loudoun Water Way
	Ashburn, Virginia 20146
Agent's Telephone Number:	571-291-7835
Authorizing Agent:	R. Bruce Ringrose Signature
	signature -

Elysian Heights STP

Please return to:

Doug Frasier VA-DEQ, NVRO 13901 Crown Court Woodbridge, VA 22193-1453 Fax: (703)583-3841 Elysian Heights STP; VA0092380

FORM 2A

NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

Ely

CILITY NAME AND PERMIT NUMBER:	
ysian Heights STP; VA0092380	

BASIC APPLICATION INFORMATION

					·					
			ATION FOR ALL API							
			1.1 through A.8 of this B	lasic Application I	nformation packet.					
M. I.	Facility Information		`TD							
	Facility name	Elysian Heights S	<u> </u>							
	Mailing Address	P.O. Box 4000								
		Ashburn, VA 201	46							
	Contact person	Dale C. Hammes								
	Title	General Manager								
	Telephone number	571-291-7700								
	Facility Address	43254 Heavenly	Circle							
	(not P.O. Box)	Leesburg, VA 20	176							
A. 2.	Applicant Information	on. If the applicant is dit	fferent from the above, pro	ovide the following:						
	Applicant name	Loudoun County	Sanitation Authority							
	Mailing Address	P.O. Box 4000								
	-	Ashburn, VA 201	46							
	Contact person	Bruce Ringrose								
	Title	Manager, Commu	unity Systems							
	Telephone number	571-291-7835	- "	-						
			both) of the treatment v	works?						
	X owner	 ·	rator							
	Indicate whether com	X	his permit should be direc licant	ted to the facility or	the applicant.					
A.3.	Existina Environme	ntal Permits. Provide t	the permit number of any	existina environmer	ntal nermits that have	been issued to the treatment works				
	(include state-issued	permits).			real politico (rial rial)	TOO TOO TO TO TO TO THE WORLD				
	NPDES VA0092	380		PSD	N/A					
	UIC N/A			Other	N/A					
	RCRA N/A			Other	N/A					
A.4 .	Collection System I entity and, if known, p	nformation. Provide in rovide in the rovide information on the	formation on municipalitie le type of collection syster	s and areas served m (combined vs. sep	by the facility. Provi parate) and its owner	de the name and population of each ship (municipal, private, etc.).				
	Name	Popu	lation Served	Type of Collect	ion System	Ownership				
	Elysian Hts Comr	nunity ~67	74 current	separate sa	initary	LCSA				
	Total po	oulation served <u>~67</u>	74	<u>. </u>						

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Elysian Heights STP; VA0092380

	Indian Country.				·	
	a. Is the treatment works located in Indian Cou	intry?				
	YesXNo					
	 Does the treatment works discharge to a re- through) Indian Country? 	ceiving water that is either	r in Indian Country or that is	upstream from (and e	eventually flo	ws
	Yes X No					
\.6.	Flow. Indicate the design flow rate of the treatm daily flow rate and maximum daily flow rate for emonth of "this year" occurring no more than three	ach of the last three year	s. Each year's data must be			
	a. Design flow ratemgd					
		Two Years Ago	Last Year	This Year		
	b. Annual average daily flow rate	0.022	0.029	0.042	-	_ mgd
	c. Maximum daily flow rate	0.080	0.064	0.110		_ mgd
.7.	Collection System. Indicate the type(s) of coll contribution (by miles) of each.	ection system(s) used by	the treatment plant. Check	all that apply. Also e	stimate the p	ercent
	X Separate sanitary sewer			100		%
	Combined storm and sanitary sewer			~0~		- %
	<u> </u>				•	
.8.	Discharges and Other Disposal Methods.					
	a. Does the treatment works discharge effluen	t to waters of the U.S.?		X Yes		No
	If yes, list how many of each of the following	types of discharge point	s the treatment works uses	:		
	i. Discharges of treated effluent				~1~	
	ii. Discharges of untreated or partially trea	ted effluent		_	~0~	
	iii. Combined sewer overflow points				~0~	
	iv. Constructed emergency overflows (prio	r to the headworks)		_	~0~	
	v. Other	•		_	~0~	
	b. Does the treatment works discharge effluen	t to basins, ponds, or other	er surface impoundments	_		
	that do not have outlets for discharge to wat	ers of the U.S.?		Yes	<u> </u>	_ No
	If yes, provide the following for each surface Location:	impoundment:				
	Annual average daily volume discharged to	surface impoundment(s)	-		mgd	
	Is discharge continuous or	intermitte	nt?			
	c. Does the treatment works land-apply treated	I wastewater?		Yes	X	No.
	If yes, provide the following for each land ap	plication site:				
	Location:					
	Number of acres:					
	Annual average daily volume applied to site:		Mgd			
	Is land application continue	ous or inte	ermittent?			

FACILITY NAME AND PERMIT NUMBER:

Elysian Heights STP; VA0092380

Form Approved 1/14/99 OMB Number 2040-0086

If transport is by	a party other than the applicant, provide:
Transporter nam	e: N/A
Mailing Address:	
Contact person:	N/A
Title:	
Telephone numb	er.
For each treatme	ent works that receives this discharge, provide the following:
Name:	N/A
Mailing Address:	
Contact person:	
Title:	
Telephone numb	er.
If known, provide	the NPDES permit number of the treatment works that receives this discharge.
Provide the average	age daily flow rate from the treatment works into the receiving facility.
Does the treatme	ent works discharge or dispose of its wastewater in a manner not included in 8.d above (e.g., underground percolation, well injection)? Yes X No
If yes, provide the	e following <u>for each disposal method</u> :
Description of me	ethod (including location and size of site(s) if applicable):
Annual daily volu	me disposed of by this method:

Form Approved 1/14/99 OMB Number 2040-0086 FACILITY NAME AND PERMIT NUMBER: Elysian Heights STP; VA0092380

WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which

a.					
	Outfall number	001			
b.	Location	Leesburg		20176	
		(City or town, if applicable) Loudoun		(Zip Code) VA	
		(County) 39° 14′ 50″ N		(State) 77° 29' 16" W	_
		(Latitude)	1 1 m 12 m	(Longitude)	
C.	Distance from shore	(if applicable)	at shoreline	ft.	
ď.	Depth below surface	(if applicable)	above surface	ft.	
e.	Average daily flow rat	te	0.031	_ mgd	
	discharge?	e either an intermittent or a per	riodic X Yes	No (go to A.9.g.)	
	If yes, provide the foll	lowing information:			
	Number of times per	year discharge occurs:	Daily		
	Average duration of e		Continous		
	Average flow per disc	charge:	0.042	mgd	
	Months in which disc	charge occurs:	Year round		
g.	Is outfall equipped wi	ith a diffuser?	XYes	No	
Des	scription of Receivin	ng Waters.			
a.	Name of receiving wa	ater Potomac Ri	iver		
b.	Name of watershed (i	(if known)	Potomac River		
	United States Soil Co	onservation Service 14-digit wa	atershed code (if known):		
C.	Name of State Manag	gement/River Basin (if known):	Potomac	c River	_
	United States Geolog	gical Survey 8-digit hydrologic (cataloging unit code (if known):		
d.	Critical low flow of rea	ceiving stream (if applicable):			
	acute	cfs	chronic	cfs	
e.	Total hardness of rec	eiving stream at critical low flo	ow (if applicable):	mg/l of CaCO ₃	

FACILITY NAME AND PERMIT NUMBER: Elysian Heights STP; VA0092380

Elysian Heights STP	; VA0092380					
A.11. Description of Trea	atment.				-	
a. What levels of tr	reatment are provid	ed? Check all that a	apply.			
X Prio	mary	X Se	condary			
Adv	vanced	Oth	ner. Describe:			•
b. Indicate the follo	owing removal rates	(as applicable):				
Design BOD _s re	emoval <u>or</u> Design C	BOD _s removal		>87.5	%	
Design SS remo				>87.5	 %	
Design P remov	ral					
Design N remov				 		
· ·	o.					
Other		_			<u> </u>	
	sinfection is used fo n/dechlorination		this outfall? If disinfe	ction varies by season, p	lease describe.	
Chiormation		1 				
If disinfection is	by chlorination, is o	dechlorination used	for this outfall?	<u> </u>	Yes	No
d. Does the treatm	ent plant have post	aeration?		×	Yes	No
discharged. Do no collected through 40 CFR Part 136 ar	de the indicated e ot include informa analysis conducte nd other appropria	ffluent testing req tion on combined ed using 40 CFR F ate QA/QC require	uired by the permit sewer overflows in Part 136 methods. I ments for standard	the US must provide et ting authority <u>for each</u> n this section. All information in addition, this data m is methods for analytes and must be no more t	outfall through wh mation reported mu ust comply with QA not addressed by A	ich effluent is ist be based on data VQC requirements of 40 CFR Part 136. At a
Outfall number:	00)1				
PARAMETI	ER	MAXIMUM :	DAILY VALUE	, A	VERAGE DAILY VA	LUE
		Value	Units	Value	Units	Number of Samples
pH (Minimum)	·	6.5	s.u.		\$.U,	1095
pH (Maximum)		8.1	S.U.		s.u.	1095
Flow Rate		0.050		0.036	MGD	1095
Temperature (Winter)		12.5		16.3	С	546
Temperature (Summer)		24.8		21.7	С	549
* For pH please repo			lue			
POLLUTANT	M	AXIMUM DAILY	AVERAGE	DAILY DISCHARGE	ANALYTICAL	MI/MDI

POLLUTANT			JM DAILY HARGE	AVERAGE DAILT DISCHARGE ANALT			ANALYTICAL METHOD	ML/MDL
		Conc.	Units	Conc.	Units	Number of Samples		
CONVENTIONAL AND N	ONCONVEN	ITIONAL CON	MPOUNDS.					
BIOCHEMICAL OXYGEN	BOD-5	28.4	mg/L	10.2	mg/l	152	SM5210 B.	1 mg/L
DEMAND (Report one)	CBOD-5							
FECAL COLIFORM (E. COII)		30.6	GeoMean	4.5	GeoMean	157	SM4223 B	2 per 100mls
TOTAL SUSPENDED SOLIDS (TSS)		16.4	mg/L	8.5	mg/l	152	SM2540 D.	1 mg/L

END OF PART A. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Elysian Heights STP; VA0092380

Form Approved 1/14/99 OMB Number 2040-0086

BASIC APPLICATION INFORMATION

PAR	RT B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).
All a	pplicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
B.1.	Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. N/A gpd Briefly explain any steps underway or planned to minimize inflow and infiltration.
B.2.	Topographic Map . Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)
	The area surrounding the treatment plant, including all unit processes.
	b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
	c. Each well where wastewater from the treatment plant is injected underground.
	d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
	e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.
	f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.
	Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.
	Operation/Maintenance Performed by Contractor(s).
	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? Yes X No
	If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).
	Name:
	Mailing Address:
	Telephone Number:
	Responsibilities of Contractor:
	Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)
	a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.
	b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.
	YesNo

FACILITY NAME AND PERMIT NUMBER:

Elysian Heights STP; VA0092380

DISSOLVED OXYGEN

TOTAL KJELDAHL

NITROGEN (TKN)
NITRATE PLUS NITRITE

TOTAL DISSOLVED SOLIDS (TDS)

NITROGEN
OfL and GREASE
PHOSPHORUS (Total)

, c	If the answer to B.5	.b is "Yes," briefly	y describe, includi	ing new maximu	m daily inflow rat	te (if applicable).					
d.	Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.										
			Schedule	Δ	ctual Completion	1					
	Implementation Sta	ge	MM / DD / Y	YYYY MI	M / DD / YYYY			•			
	- Begin constructio	n .	_/_/		_/						
	- End construction				_//						
	- Begin discharge			<u>.</u>	_/_/						
	- Attain operational	level	//_		_//						
App req this dat add and	uired by the permitting section. All informa a must comply with 0	ATA (GREATER e to waters of the g authority for ea tion reported mu QA/QC requireme	e US must provide ach outfall through st be based on da ents of 40 CFR Pa	O ONLY). e effluent testing n which effluent i ata collected thro art 136 and othe	data for the folions discharged. Discharged bugh analysis corrappropriate QA	o not include info nducted using 40 VQC requiremen	s. Provide the indicate ormation on combined of CFR Part 136 method ts for standard method ant scans and must be	sewer overflows in ls. In addition, this s for analytes not			
P	DLLUTANT		JM DAILY	AVERA	GE DAILY DISC	HARGE					
		Conc.	HARGE Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML / MDL			
CONVEN	TIONAL AND NONC	ONVENTIONAL	COMPOUNDS.								
AMMONIA	(as N)	0.50	mg/l	0.42	mg/l	152	SM4500 NH3-C	0.2			
CHLORIN RESIDUA	E (TOTAL L, TRC)	18.9	mg/l	5.7	mg/l	1094	SM4500-CI G DPD	0.1			

END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

6.8

2.95

27.1

4.8

29.8

mg/l

mg/l

mg/l

mg/l

mg/l

1094

35

35

35

35

SM4500-O G

EPA 351.2

EPA 353.2

SM4500P-E

CALC

11.0

29.0

46.0

6.7

68.0

mg/l

mg/l

mg/l

mg/l

mg/l

0.01

0.038

0.017

0.05

N/A

FACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Elysian Heights STP; VA0092380	OMB Number 2040-0086
BASIC APPLICATION INFORMATION	
PART C. CERTIFICATION	
All applicants must complete the Certification Section. Refer to instructions applicants must complete all applicable sections of Form 2A, as explained in completed and are submitting. By signing this certification statement, application that apply to the facility for which this application is submitted.	
Indicate which parts of Form 2A you have completed and are sub	mitting:
X Basic Application Information packet Supplemental App	dication Information packet:
Part D (E	xpanded Effluent Testing Data)
Part E (Tr	oxicity Testing: Biomonitoring Data)
Part F (in	dustrial User Discharges and RCRA/CERCLA Wastes)
Part G (C	ombined Sewer Systems)
ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION	ON.
Name and official title Dale C. Hammes, General Manag	er
Signature Wall CHanny	ues)
Telephone number 571-291-7700	
Date signed <u>6/5/13</u>	
Upon request of the permitting authority, you must submit any other informat or identify appropriate permitting requirements.	ion necessary to assess wastewater treatment practices at the treatment works

SEND COMPLETED FORMS TO:

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Elysian Heights STP; VA0092380

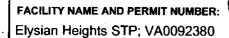
SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS. ANTIMONY ARSENIC BERYLLIUM CADMIUM CHROMIUM COPPER LEAD MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS		RGE	DISCHA						DISCH		POLLUTANT
ANTIMONY ARSENIC BERYLLIUM CADMIUM CHROMIUM COPPER LEAD MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS	ML/ MDL	of	Units	Mass	Units	Conc.	Units			Conc.	
ARSENIC BERYLLIUM CADMIUM CHROMIUM COPPER LEAD MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS					•	3.	ARDNES	S, AND H	PHENOL	YANIDE, F	METALS (TOTAL RECOVERABLE), C
BERYLLIUM CADMIUM CHROMIUM COPPER LEAD MERCURY MICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS											ANTIMONY
CADMIUM CHROMIUM COPPER LEAD MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS											ARSENIC
CHROMIUM COPPER LEAD MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS											BERYLLIUM
COPPER											CADMIUM
LEAD MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS											СНКОМІЛМ
MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS											COPPER
MERCURY NICKEL SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS										·	LEAD
SELENIUM SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS											
SILVER THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS											NICKEL
THALLIUM ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS						<u></u> .					SELENIUM
ZINC CYANIDE TOTAL PHENOLIC COMPOUNDS											SILVER
CYANIDE TOTAL PHENOLIC COMPOUNDS											THALLIUM
TOTAL PHENOLIC COMPOUNDS											ZINC
											CYANIDE
HARDNESS (AS CaCO ₃)											TOTAL PHENOLIC COMPOUNDS
						5					HARDNESS (AS CaCO ₃)
Use this space (or a separate sheet) to provide information on other metals requested by the permit writer.	<u> </u>	 i		nit writer.	the perr	quested b	metals re	on other	formation	provide in	Use this space (or a separate sheet) to





Outfall number:			IM DAIL				t to wate		United State	≥S.)	
I OLLO IAMI	DISCHARGE										
	Conc.	Units	Units Mass		Conc.	Units	Mass	Units	Number of	ANALYTICAL METHOD	ML/ MDL
VOLATILE ODCANIC COMPONINO		<u> </u>							Samples		;
VOLATILE ORGANIC COMPOUNDS.				Υ	ı						
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											
CARBON TETRACHLORIDE											
CLOROBENZENE											
CHLORODIBROMO-METHANE											
CHLOROETHANE											
2-CHLORO-ETHYLVINYL ETHER											
CHLOROFORM										w	
DICHLOROBROMO-METHANE											
1,1-DICHLOROETHANE									,		
1,2-DICHLOROETHANE											
TRANS-1,2-DICHLORO-ETHYLENE											
1,1-DICHLOROETHYLENE											
1,2-DICHLOROPROPANE											
1,3-DICHLORO-PROPYLENE											
ETHYLBENZENE											
METHYL BROMIDE											
METHYL CHLORIDE									<u></u>		V; I;
METHYLENE CHLORIDE											· · · · · · · · · · · · · · · · · · ·
1,1,2,2-TETRACHLORO-ETHANE					<u>-</u>						
TETRACHLORO-ETHYLENE			-								<u></u>
TOLUENE											



Elysian Heights STP; VA0092380



Outfall number:POLLUTANT		JAXIMU	M DAIL				DAILY		United State		
	Conc.		Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE								į			
1,1,2-TRICHLOROETHANE											
TRICHLORETHYLENE											
VINYL CHLORIDE											
Use this space (or a separate sheet) to provide in	formation	n on other	volatile o	rganic cor	npounds	requested	by the p	ermit writer.		
										·	
ACID-EXTRACTABLE COMPOUNI	os T							I I	Г	Г	
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL					_						
2,4-DICHLOROPHENOL											·
2,4-DIMETHYLPHENOL											
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL											
2-NITROPHENOL			· · · · · · · · · · · · · · · · · · ·								
4-NITROPHENOL											
PENTACHLOROPHENOL						:					
PHENOL		:									
2,4,6-TRICHLOROPHENOL			•								
Use this space (or a separate sheet) to provide in	formation	n on other	acid-extra	actable co	mpounds	requeste	d by the	permit writer.	_	
BASE-NEUTRAL COMPOUNDS.	1	- 1						<u> </u>			
ACENAPHTHENE							,,,,,,,				
ACENAPHTHYLENE											
ANTHRACENE											
BENZIDINE											
BENZO(A)ANTHRACENE											

BENZO(A)PYRENE											
FACILITY NAME AND PERMIT N	UMBER	:		·	1		L	<u> </u>			oved 1/14/99 ber 2040-0086
Elysian Heights STP; VA00	92380									Olvio Nulli	uei 2040-0066
Outfall number:									United State	es.)	
POLLUTANT	'		JM DAIL' HARGE	Y	A\	∕ERAGI	DAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
3,4 BENZO-FLUORANTHENE											
BENZO(GHI)PERYLENE											
BENZO(K)FLUORANTHENE									-		,
BIS (2-CHLOROETHOXY) METHANE											
BIS (2-CHLOROETHYL)-ETHER			:								
BIS (2-CHLOROISO-PROPYL) ETHER		:									
BIS (2-ETHYLHEXYL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE											
DI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE											
DIBENZO(A,H) ANTHRACENE											
	1	I	1	I	I	1	I	1	I		

1,2-DICHLOROBENZENE

1,3-DICHLOROBENZENE

1,4-DICHLOROBENZENE

3,3-DICHLOROBENZIDINE

DIETHYL PHTHALATE

DIMETHYL PHTHALATE

2,4-DINITROTOLUENE

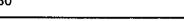
2,6-DINITROTOLUENE

1,2-DIPHENYLHYDRAZINE												
FACILITY NAME AND PERMIT							Form Approved 1/14/99 OMB Number 2040-0086					
Elysian Heights STP; VAC)092380 											
Outfall number:			for each						United State	es.)		
POLLUTANT		AVERAGE DAILY DISCHARGE										
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL	
FLUORANTHENE												
FLUORENE												
HEXACHLOROBENZENE												
HEXACHLOROBUTADIENE												
HEXACHLOROCYCLO- PENTADIENE												
HEXACHLOROETHANE												
INDENO(1,2,3-CD)PYRENE												
ISOPHORONE												
NAPHTHALENE	· .											
NITROBENZENE												
N-NITROSODI-N-PROPYLAMINE												
N-NITROSODI- METHYLAMINE												
N-NITROSODI-PHENYLAMINE						<u> </u>						
PHENANTHRENE												
PYRENE		<u> </u>										
1,2,4-TRICHLOROBENZENE												
Use this space (or a separate sheet)	to provide in	Iformation	n on other	base-neu	utral comp	ounds re	quested b	y the per	mit writer.			
Use this space (or a separate sheet)	to provide in	1formation	n on other	pollutant:	<u> </u> s (e.g., pe	sticides)	requested	by the p	ermit writer.	ii	<u> </u>	
		Ī		<u> </u>			<u> </u>					
DEEED TO THE ADI		TION.	OVE		O OF I				nich O.	TUED DADTS	OF FORM	

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Elysian Heights STP; VA0092380



PART E. TOXICITY TESTING DATA

SUPPLEMENTAL APPLICATION INFORMATION

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.

requested in question E.4 for pr	eviously submitted information. If EP that contain all of the information required	t E, you need not submit it again. Rathe A methods were not used, report the rea ested below, they may be submitted in p tion Overview for directions on which ot	asons for using alternate methods. blace of Part E.					
E.1. Required Tests.								
Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years. chronicacute								
E.2. Individual Test Data. Complete the column per test (where each species	following chart <u>for each whole effluent</u> constitutes a test). Copy this page if r	t toxicity test conducted in the last four a more than three tests are being reported	nd one-half years. Allow one					
	, , , ,	Test number:						
a. Test information.			***************************************					
Test species & test method number								
Age at initiation of test								
Outfall number								
Dates sample collected								
Date test started								
Duration								
b. Give toxicity test methods follower	d.							
Manual title								
Edition number and year of publication								
Page number(s)								
c. Give the sample collection method	d(s) used. For multiple grab samples,	, indicate the number of grab samples u	sed.					
24-Hour composite								
Grab								
d. Indicate where the sample was tal	ken in relation to disinfection. (Check	all that apply for each)						
Before disinfection								
After disinfection								
After dechlorination								

FACILITY NAME AND PERMIT NUMBER:
Elysian Heights STP; VA0092380

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•	Form Approved 1/14/99
	OMB Number 2040-0086

	Test number:	Test number:	Test number:
e. Describe the point in the treatmen	t process at which the sample was co	illected.	
Sample was collected:			
f. For each test, include whether the	test was intended to assess chronic t	oxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performed			
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If laborate	tory water, specify type; if receiving w	ater, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt water	r, specify "natural" or type of artificial s	sea salts or brine used.	,
Fresh water			
Salt water			
j. Give the percentage effluent used	for all concentrations in the test series	S.	
			_
			. 100.00.00
k. Parameters measured during the t	test. (State whether parameter meets	test method specifications)	
pH			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.			
Acute:			
Percent survival in 100% effluent	%	%	%
LC ₅₀			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

FACILITY NAME AND PERMIT NUMBER Elysian Heights STP; VA0092380			Form Approved 1/14/99 OMB Number 2040-0086
Chronic:		•	
NOEC	%	%	%
IC ₂₅	%	%	%
Control percent survival	%	%	%
Other (describe)			
m. Quality Control/Quality Assurance	e.		
Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)		<u> </u>	
E.4. Summary of Submitted Biomonito	ring Test Information. If you have sehalf years, provide the dates the info		, or information regarding the cause g authority and a summary of the
Summary of results: (see instruction	ns)		
	END OF PA	ART E.	

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Elysian Heights STP; VA0092380

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

		ment works receivir e Part F.	ng discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must
GE	NEI	RAL INFORMAT	FION:
F.1.	Pre	etreatment Program	Does the treatment works have, or is it subject to, an approved pretreatment program?
	_	YesNo	
F.2.			t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of charge to the treatment works.
	a.	Number of non-cate	egorical SIUs.
	b.	Number of CIUs.	
SIG	NIF	ICANT INDUST	TRIAL USER INFORMATION:
			ation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and uested for each SIU.
F.3.		nificant Industrial (necessary.	User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages
		me:	
	Ma	ailing Address:	
F.4.	Inc	dustrial Processes.	Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.5.		incipal Product(s) a charge.	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Pri	incipal product(s):	
	Ra	w material(s):	
F.6.	Flo	ow Rate.	
	a.	(gpd) and whether t	r flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day the discharge is continuous or intermittent.
		gr	intermittent)
	b.		water flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in d) and whether the discharge is continuous or intermittent.
		gr	od (cantinuous orintermittent)
F.7.	Pre	etreatment Standard	ds. Indicate whether the SIU is subject to the following:
	a.	Local limits	YesNo
	b.	Categorical pretreat	tment standardsYesNo
	lf s	subject to categorical	pretreatment standards, which category and subcategory?
	_		

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Elysian Heights STP; VA0092380 F.8. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years? _Yes ____No If yes, describe each episode. RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE: F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or dedicated pipe? Yes No (go to F.12.) F.10. Waste Transport. Method by which RCRA waste is received (check all that apply): **Dedicated Pipe** F.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units). **EPA Hazardous Waste Number** <u>Amount</u> <u>Units</u> CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER: F.12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities? Yes (complete F.13 through F.15.) Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site. F.13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years). F.14. Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary). F.15. Waste Treatment. a. Is this waste treated (or will it be treated) prior to entering the treatment works? If yes, describe the treatment (provide information about the removal efficiency): b. Is the discharge (or will the discharge be) continuous or intermittent? Continuous If intermittent, describe discharge schedule.

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086

Elysian Heights STP; VA0092380

SUPPLEMENTAL APPLICATION INFORMATION

PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

- G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)
 - a. All CSO discharge points.
 - b. Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
 - c. Waters that support threatened and endangered species potentially affected by CSOs.
- G.2. System Diagram. Provide a diagram, either in the map provided in G.1. or on a separate drawing, of the combined sewer collection system that includes the following information:
 - a. Locations of major sewer trunk lines, both combined and separate sanitary.
 - b. Locations of points where separate sanitary sewers feed into the combined sewer system.
 - Locations of in-line and off-line storage structures.
 - d. Locations of flow-regulating devices.
 - e. Locations of pump stations.

<u>cso</u>	O	UTFALLS:			
Comp	olet	e questions G.3 t	through G.6 once for each CSO discharge point.		
G.3. I	Des	cription of Outfa	и.		
	a.	Outfall number			
	b.	Location	(City or town, if applicable)	(Zip Code)	
			(County)	(State)	
			(Latitude)	(Longitude)	,
	c.	Distance from sh	ore (if applicable)	ft.	
	d.	Depth below surf	face (if applicable)	ft.	
	e.	Which of the follo	owing were monitored during the last year for this CS	0?	
		Rainfall	CSO pollutant concentrations plumeReceiving water quality	CSO frequency	
	f.	How many storm	events were monitored during the last year?		
G.4. (CSC	D Events.			
	a.	Give the number	of CSO events in the last year.		
		eve	ents (actual or approx.)		
	b.	Give the average	duration per CSO event.		
		hou	rs (actual or approx.)		

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Elysian Heights STP; VA0092380 c. Give the average volume per CSO event. ____ million gallons (____ actual or ___ approx.) d. Give the minimum rainfall that caused a CSO event in the last year. __ inches of rainfall G.5. Description of Receiving Waters. a. Name of receiving water: b. Name of watershed/river/stream system: United States Soil Conservation Service 14-digit watershed code (if known): c. Name of State Management/River Basin: United States Geological Survey 8-digit hydrologic cataloging unit code (if known): G.6. CSO Operations. Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

END OF PART G.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE.

· FACILITY NAME: Elysian Heights STP

PERMIT NUMBER: VA0092380

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

1.	All a	pplicants must complete Section A (General Information).					
2.	Will	this facility generate sewage sludge? X Yes No					
	Will	this facility derive a material from sewage sludge?Yes _X_No					
		answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material yed From Sewage Sludge).					
3.	Will	this facility apply sewage sludge to the land?Yes _X_No					
	Will	sewage sludge from this facility be applied to the land? _Yes X_No					
	If you	a answered No to both questions above, skip Section C.					
	If you	If you answered Yes to either, answer the following three questions:					
	a.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo					
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo					
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo					
	If you	answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).					
	If you	answered Yes to a, b or c, skip Section C.					
4.	Do y	ou own or operate a surface disposal site?Yes _X_No					
	If Ye	s, complete Section D (Surface Disposal).					



SECTION A. GENERAL INFORMATION

All applicants must complete this section.

I aciti	ty Information.	
a.	Facility name:	Elysian Heights STP
b .	Contact person:	Dale C. Hammes
	Title:	General Manager
	Phone:	571-291-7700
c.	Mailing address:	PO Box 4000
	· ·	Ashburn, VA 20146
d.	Facility location:	
		: 43254 Heavenly Circle
	County:	Loudoun
	City or Town:	Leesburg State: VA Zip: 20176
e.		Class I sludge management facility?Yes _X No
f.		ow rate:
g.	Total population	served: 674 people Current (1000 people ultimate)
ĥ.	Indicate the type	
		ed treatment works (POTW)
		ned treatment works
		ned treatment works
		reatment operation
	Surface dispo	
	Other (descri	
	_ `	
Applic	cant Information. I	f the applicant is different from the above, provide the following:
a.		Loudoun County Sanitation Authority
b.	Mailing address:	
		Ashburn, VA. 20146
c.	Contact person:	Bruce Ringrose
	Title:	Manager, Community Systems
	Phone:	571-291-7835
d.	Is the applicant the	he owner or operator (or both) of this facility?
	X owner	X operator
e.	Should correspor	ndence regarding this permit be directed to the facility or the applicant? (Check one)
	facility	X applicant
Permi	t Information.	
a.	Facility's VPDES	S permit number (if applicable): <u>VA0092380</u>
b.	List on this form	or an attachment, all other federal, state or local permits or construction approvals received
		at regulate this facility's sewage sludge management practices:
	Permit Number:	Type of Permit:
	none	

FACILITY NAME: Elysian Heights STP



- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

7.	Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge
	generation, treatment, use or disposal the responsibility of a contractor? X Yes No
	If yes, provide the following for each contractor (attach additional pages if necessary).
	Name: Five Star Septic, Inc.
	3.6 111 3.1

Mailing address:

Street or P.O. Box: P.O. Box 2785

City or Town: Reston State: Virginia Zip: 20195

Phone: (703)350-1121

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

Contractor's License # 998164and Permit # C0076 for Loudoun County

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic	<4.00 ug/g	12/17/2008	EPA 200.8	.002 mg/l
Cadmium	<2.00 ug/g	12/17/2008	EPA 200.8	.0005 mg/l
Chromium	<4.00 ug/g	12/17/2008	EPA 200.8	.002 mg/l
Copper	14.2 ug/g	12/17/2008	EPA 200.8	.002 mg/l
Lead	<4.00 ug/g	12/17/2008	EPA 200.8	.002 mg/l
Mercury	<0.500 ug/g	12/17/2008	EPA 245.1	.0005 mg/l
Molybdenum	<4.00 mg/Kg	12/17/2008	EPA 200.8	.002 mg/l
Nickel	<4.00 ug/g	12/17/2008	EPA 200.8	.002 mg/l
Selenium	<4.00 ug/g	12/17/2008	EPA 200.8	.005 mg/l
Zinc	19.2 ug/g	12/17/2008	EPA 200.8	.01 mg/l

9.	Certification. Read and submit the following certification sta	tement with this application.	Refer to the instructions to
	determine who is an officer for purposes of this certification.	Indicate which parts of the a	pplication you have
	completed and are submitting:		

X Section A	(General L	nformation)	

X Section B (Generation of	of Sewage Sludge or P	eparation of a Material	Derived from	Sewage Sludge)
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Section C (Land Application of Bulk Sewage Sludge)

Section D (Surface Disposal)





I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title: Dale C. Hammes, General Manager

Signature Wall Howwell Date Signed 6/5/13

Telephone number: 571-291-7700

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

· FACILITY NAME: Elysian Heights STP

PERMIT NUMBER: VA0092380

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

Amount Received from Off Site. If your facility receives sewage sludge from another facility for disposal, provide the following information for each facility from which sewage sludge is receive sewage sludge from more than one facility, attach additional pages as necessary. a. Facility name: N/A b. Contact Person: Title: Phone () c. Mailing address: Street or P.O. Box: City or Town: State: Ity Address: (not P.O. Box) e. Total dry metric tons per 365-day period received from this facility: f. Describe, on this form or on another sheet of paper, any treatment processes known to or facility, including blending activities and treatment to reduce pathogens or vector attractions are made at your facility: Class AClass BX. Neither or unknown b. Describe, on this form or another sheet of paper, any treatment processes used at your facility:Class AClass BX. Neither or unknown b. Describe, on this form or another sheet of paper, any treatment processes used at your facility?Option 1 (Minimum 38 percent reduction in volatile solids)Option 3 (Aerobic process, with bench-scale demonstration)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to 12 and retain at 11.5)Option 6 (Raise plf to	
Title: Phone () c. Mailing address: Street or P.O. Box: City or Town: State: City or Town the sewage sludge at your factility: Class A Class B X_Neither or unknown State: State: City or Town: St	
Street or P.O. Box: City or Town: State: Zip: d. Facility Address: (not P.O. Box) e. Total dry metric tons per 365-day period received from this facility: f. Describe, on this form or on another sheet of paper, any treatment processes known to or facility, including blending activities and treatment to reduce pathogens or vector attractivities. 3. Treatment Provided at Your Facility: N/A a. Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass BX_Neither or unknown b. Describe, on this form or another sheet of paper, any treatment processes used at your facility? Otion 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown d. Describe, on this form or another sheet of paper, any treatment processes used at your face vector attraction properties of sewage sludge: e. Describe, on this form or another sheet of paper, any other sewage sludge treatment active blending, not identified in a - d above:	
e. Total dry metric tons per 365-day period received from this facility: f. Describe, on this form or on another sheet of paper, any treatment processes known to or facility, including blending activities and treatment to reduce pathogens or vector attractivities. 3. Treatment Provided at Your Facility: N/A a. Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class A Class B X Neither or unknown b. Describe, on this form or another sheet of paper, any treatment processes used at your facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) None or unknown d. Describe, on this form or another sheet of paper, any treatment processes used at your favector attraction properties of sewage sludge: e. Describe, on this form or another sheet of paper, any other sewage sludge treatment active blending, not identified in a - d above:	
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 a. Which class of pathogen reduction is achieved for the sewage sludge at your facility?Class AClass B _X_Neither or unknown b. Describe, on this form or another sheet of paper, any treatment processes used at your far pathogens in sewage sludge: c. Which vector attraction reduction option is met for the sewage sludge at your facility?Option 1 (Minimum 38 percent reduction in volatile solids)Option 2 (Anaerobic process, with bench-scale demonstration)Option 3 (Aerobic process, with bench-scale demonstration)Option 4 (Specific oxygen uptake rate for aerobically digested sludge)Option 5 (Aerobic processes plus raised temperature)Option 6 (Raise pH to 12 and retain at 11.5)Option 7 (75 percent solids with no unstabilized solids)Option 8 (90 percent solids with unstabilized solids)None or unknown d. Describe, on this form or another sheet of paper, any treatment processes used at your face vector attraction properties of sewage sludge: e. Describe, on this form or another sheet of paper, any other sewage sludge treatment active blending, not identified in a - d above: 	ccur at the off-site
 a. Which class of pathogen reduction is achieved for the sewage sludge at your facility?Class AClass B _X_Neither or unknown b. Describe, on this form or another sheet of paper, any treatment processes used at your facility?Dathogens in sewage sludge: c. Which vector attraction reduction option is met for the sewage sludge at your facility?Option 1 (Minimum 38 percent reduction in volatile solids)Option 2 (Anaerobic process, with bench-scale demonstration)Option 3 (Aerobic process, with bench-scale demonstration)Option 4 (Specific oxygen uptake rate for aerobically digested sludge)Option 5 (Aerobic processes plus raised temperature)Option 6 (Raise pH to 12 and retain at 11.5)Option 7 (75 percent solids with no unstabilized solids)Option 8 (90 percent solids with unstabilized solids)None or unknown d. Describe, on this form or another sheet of paper, any treatment processes used at your factorized attraction properties of sewage sludge: e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activiblending, not identified in a - d above: 	
pathogens in sewage sludge: c. Which vector attraction reduction option is met for the sewage sludge at your facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown d. Describe, on this form or another sheet of paper, any treatment processes used at your factive to attraction properties of sewage sludge: e. Describe, on this form or another sheet of paper, any other sewage sludge treatment active blending, not identified in a - d above:	
 Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) None or unknown Describe, on this form or another sheet of paper, any treatment processes used at your factorized attraction properties of sewage sludge: Describe, on this form or another sheet of paper, any other sewage sludge treatment active blending, not identified in a - d above: 	cility to reduce
 d. Describe, on this form or another sheet of paper, any treatment processes used at your factories of sewage sludge: e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activiblending, not identified in a - d above: 	
blending, not identified in a - d above:	cility to reduce
Department of Saurage Studies Marking California's Dallar and Dallar and California California	rities, including
 Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen R One of Vector Attraction Reduction Options 1-8 (EQ Sludge). N/A 	tequirements and
 (If sewage sludge from your facility does not meet all of these criteria, skip Question 4.) a. Total dry metric tons per 365-day period of sewage sludge subject to this section that is a dry metric tons 	applied to the land:
 Is sewage sludge subject to this section placed in bags or other containers for sale or give YesNo 	-away?

Sale or Give-Away in a Bag or Other Container for Application to the Land.

5.

FACILITY NAME: Elysian Heights STP

6.



(Complete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this question if sewage sludge is covered in Question 4.) Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: dry metric tons Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or b. given away in a bag or other container for application to the land. Shipment Off Site for Treatment or Blending. (Complete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does not apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.) Receiving facility name: Broad Run WRF b. Facility contact: Michael R. Rumke Title: Superintendent of BRWRF Phone: 571-291-7826 P.O. Box 4000 Mailing address: c. Ashburn, Va. 20146 d. Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: ~ 6 dry metric tons List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices: Permit Number: Type of Permit: VA0091383 **VPDES** f. Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility? X Yes No Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? Class A X Class B Neither or unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge: anaerobic digestion, 38% volatile reduction 95 F 40 d retention Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge? X Yes No Which vector attraction reduction option is met for the sewage sludge at the receiving facility? X Option 1 (Minimum 38 percent reduction in volatile solids) ___ Option 2 (Anaerobic process, with bench-scale demonstration) ___ Option 3 (Aerobic process, with bench-scale demonstration) ___Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) ___ Option 7 (75 percent solids with no un-stabilized solids) Option 8 (90 percent solids with un-stabilized solids) None unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge: Does the receiving facility provide any additional treatment or blending not identified in f or g above? h. Yes X No If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above: i. If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G. j Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or giveaway for application to the land? Yes X No If yes, provide a copy of all labels or notices that accompany the product being sold or given away.

FACILITY NAME: Elysian Heights STP PERMIT NUMBER: VA0092380 Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? X Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported. From Elysian Heights STP take right onto Eagles Rest Drive, take left on to Elysian Drive, take right onto Saint Claire RD., then left onto Route 15 East and merge onto Rt. 7 east. Turn right onto Loudoun County Pkwy then take a left onto the access road for the Septage Receiving Area at the Broad Run Reclamation Facility. Land Application of Bulk Sewage Sludge. N/A (Complete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6; complete Question 7.b, c & d only if you are responsible for land application of sewage sludge.) Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: dry metric tons Do you identify all land application sites in Section C of this application? Yes No b. If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions). Are any land application sites located in States other than Virginia? __Yes __No c. If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification. Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV). Surface Disposal. N/A (Complete Question 8 if sewage sludge from your facility is placed on a surface disposal site.) Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal dry metric tons b. Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? Yes No If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary. c. Site name or number: d. Contact person: Title: Phone: () Contact is: __Site Owner __Site operator Mailing address. e. Street or P.O. Box: City or Town: State: Zip: Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface dry metric tons List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of g. all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site: Permit Number: Type of Permit:

VPDES Sewage Sludge Permit Application Form (2000 Rev.)

Yes No

(Complete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)

Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge

Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?

dry metric tons

Incineration. N/A

a.

b.

7.

8.

9.

* FACILITY NAME: Elysian Heights STP

c.

Incinerator name or number:

PERMIT NUMBER: VA0092380

If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.

	d.	Contact person:
		Title:
		Phone: () Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
	٠.	Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
	1,	incinerator: dry metric tons
	~	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
	g.	
		firing of sewage sludge at this incinerator:
		Permit Number: <u>Type of Permit:</u>
		
10.	Dispo	sal in a Municipal Solid Waste Landfill. N/A
		lete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information
		h municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
	munici	pal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name:
	b.	Contact person:
		Title:
		Phone: ()
		Contact is:Landfill OwnerLandfill Operator
	c.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	d.	Landfill location.
		Street or Route #:
		County:
		City or Town: State: Zip:
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
		dry metric tons
		f. List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the
		operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
	g.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
		VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
		YesNo
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
		Waste Management Regulation, 9 VAC 20-80-10 et seq.?YesNo
	i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
		be watertight and covered? Yes No
		Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the
		week and time of the day sewage sludge will be transported.

FACILITY NAME: Elysian Heights STP

PERMIT NUMBER: VA0092380

SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

N/A

Complete this section for sewage sludge that is land applied unless any of the following conditions apply: The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead). Complete Section C for every site on which the sewage sludge that you reported in B.7 is land applied. 1. Identification of Land Application Site. a. Site name or number: b. Site location (Complete i and ii) i. Street or Route#: County: City or Town: _____ State: ___ Zip: Latitude: ____ Longitude: ii. Method of latitude/longitude determination Other ____ USGS map ____ Filed survey Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable) ¢. that shows the site location. 2, Owner Information. Are you the owner of this land application site? ___Yes ___No a. b. If no, provide the following information about the owner: Name: Street or P.O. Box: City or Town: State: Zip: Phone: (3. Applier Information: Are you the person who applies, or who is responsible for application of, sewage sludge to this land a. application site? __Yes __No b. If no, provide the following information for the person who applies the sewage sludge: Name: Street or P.O. Box: City or Town: State: Zip: Phone: () List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the person c. who applies sewage sludge to this land application site: Permit Number: Type of Permit: 4. Site Type. Identify the type of land application site from among the following: Agricultural land ___Reclamation site __Forest Public contact site Other. Describe 5. Vector Attraction Reduction. Are any vector attraction reduction requirements met when sewage sludge is applied to the land application site? Yes ___No If yes, answer a and b. Indicate which vector attraction reduction option is met: ___ Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Describe, on this form or on another sheet of paper, any treatment processes used at the land application site b. to reduce the vector attraction properties of sewage sludge:

6. Cumulative Loadings and Remaining Allotments.



Arsenic Cadmium Copper Lead Mercury Nickel Selenium Zinc



(Complete Question 6 only if the sewage studge applied to this site since July 20, 1993 is subject to the cumulative pollutant loading rates (CPLRs) - see instructions.) Have you contacted DEQ or the permitting authority in the state where the sewage sludge subject to the CPLRs will be applied to ascertain whether bulk sewage sludge subject to the CPLRs has been applied to this site since July 20, 1993? __Yes __No If no, sewage sludge subject to the CPLRs may not be applied to this site. If yes, provide the following information: Permitting authority: Contact person: Phone:() Ъ. Based upon this inquiry, has bulk sewage sludge subject to the CPLRs been applied to this site since July 20, 1993? Yes No If no, skip the rest of Question 6. If yes, answer questions c - e. Site size, in hectares: (one hectare = 2.471 acres) c. Provide the following information for every facility other than yours that is sending or has sent sewage d. sludge subject to the CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary. Facility name: Facility contact: Title: Phone: () Mailing address. Street or P.O. Box: City or Town: State: Provide the total loading and allotment remaining, in kg/hectare, for each of the following pollutants: e. Allotment remaining Cumulative loading

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. Sludge Characterization. Use the table below or a separate attachment, provide at least one analysis for each parameter.

PCBs (mg/kg)
pH (S. U.)
Percent Solids (%)
Ammonium Nitrogen (mg/kg)
Nitrate Nitrogen (mg/kg)
Total Kjeldahl Nitrogen (mg/kg)
Total Phosphorus (mg/kg)
Total Potassium (mg/kg)
Alkalinity as CaCO₃* (mg/kg)

* Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO₃.

FACILITY NAME: Elysian Heights STP

PERMIT NUMBER: VA0092380

8. Storage Requirements.

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
 - 1) Water wells, abandoned or operating
 - 2) Surface waters
 - 3) Springs
 - 4) Public water supply(s)
 - 5) Sinkholes
 - 6) Underground and/or surface mines
 - 7) Mine pool (or other) surface water discharge points
 - 8) Mining spoil piles and mine dumps
 - 9) Quarry(s)
 - 10) Sand and gravel pits
 - 11) Gas and oil wells
 - 12) Diversion ditch(s)
 - 13) Agricultural drainage ditch(s)
 - 14) Occupied dwellings, including industrial and commercial establishments
 - 15) Landfills or dumps
 - 16) Other unlined impoundments
 - 17) Septic tanks and drainfields
 - 18) Injection wells
 - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
 - 1) Maximum and minimum percent slopes
 - 2) Depressions on the site that may collect water
 - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
 - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- c. Data and specifications for the storage facility lining material.
- d. Plan and cross-sectional views of the storage facility.
- e. Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application.
- 10. Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant.

Ground Water Monitoring	11.	Ground	Water	Monitorin
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Are any ground water monitoring data available for this land application site? ___Yes ___No If yes, submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.

12. Land Application Site Information.

(Complete Items and for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items and for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period)

FACILITY NAME: Elysian Heights STP



- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U.
 S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office P. O. Box 480 White Marsh, VA 23183 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)

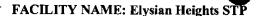
Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.

- Soil symbol
- 2) Soil series, textural phase and slope range
- 3) Depth to seasonal high water table
- 4) Depth to bedrock
- 5) Estimated soil productivity group (for the proposed crop rotation)

Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site.

 Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
 - 1). Soil symbol
 - 2). Soil series, textural phase and slope range
 - 3). Depth to seasonal high water table
 - 4). Depth to bedrock
 - 5). Estimated soil productivity group (for the proposed crop rotation)





f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

PERMIT NUMBER: VA0092380

SEWAGE SLUDGE APPLICATION AGREEMENT

This refen	sewage sludge application agreement is made or	on this date, referred to here as the "Permittee".
	lowner is the owner of agricultural land shown	on the map attached as Exhibit A and designated there as
certa:	in permit requirements following application o PDES permit number wh	er's land"). Permittee agrees to apply and landowner agrees to comply with f sewage sludge on landowner's land in amounts and in a manner authorized nich is held by the Permittee.
cond: publi	itioning to the property. Moreover, landowne	ication of sewage sludge will be beneficial in providing fertilizer and soil or acknowledges having been expressly advised that, in order to protect adhered to when sewage sludge receives Class B treatment for pathogen
1.	Food crops with harvested parts that touch not be harvested for 14 months after applic	the sewage sludge/soil mixture and are totally above the land surface shall eation of sewage sludge;
2.		surface of the land shall not be harvested for 20 months after application of nains on the land surface for four months or longer prior to incorporation
3.		surface of the land shall not be harvested for 38 months after application of mains on the land surface for less than four months prior to incorporation
4.	Food crops, feed crops, and fiber crops sha	all not be harvested for 30 days after application of sewage sludge;
5.	Animals shall not be grazed on the land for	r 30 days after application of sewage sludge;
6.		s applied shall not be harvested for one year after application of the sewage n either land with a high potential for public exposure or a lawn, unless ntrol Board;
7.	Public access to land with a high potential sewage sludge;	for public exposure shall be restricted for one year after application of
8.	Public access to land with a low potential is sewage sludge.	for public exposure shall be restricted for 30 days after application of
9.		sumulate cadmium, should not be grown on landowner's land for three years borne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45
speci		s designee of the proposed schedule for sewage sludge application and adowner's land. This agreement may be terminated by either party upon
	Landowner:	Permittee:
	Signature	Signature
	Mailing Address	Mailing Address
		TAMALINE A AND ADD

SECTION D. SURFACE DISPOSAL

N/A

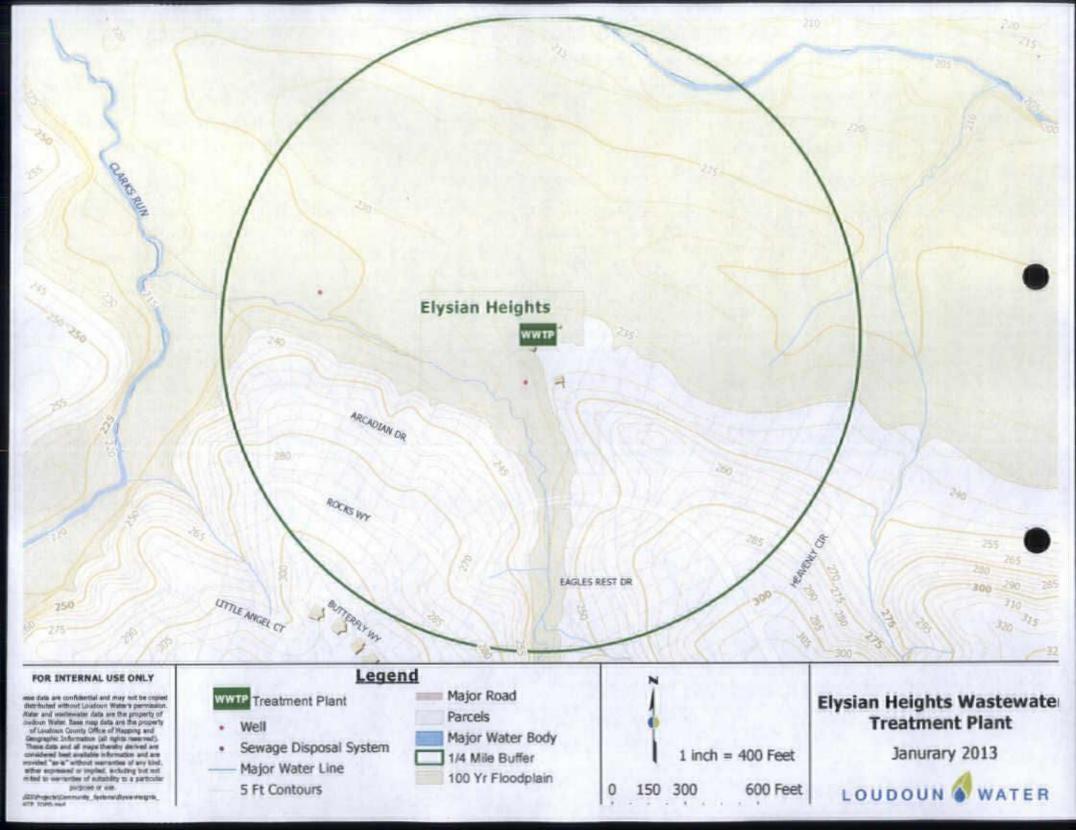
Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

1.	Infor	mation on Active Sewage Sludge Units.
	a.	Unit name or number:
	b.	Unit location
		i. Street or Route#:
		County:
		City or Town: State: Zip:
		ii. Latitude: Longitude:
		Method of latitude/longitude determination
		USGS map Filed survey Other
	•	c. Topographic map. Provide a topographic map (or other appropriate map if a topographic map is
		unavailable) that shows the site location.
	d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: dry metric tons.
		e. Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the
		unit: dry metric tons.
	f.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of
		1 x 10 ⁻⁷ cm/sec?YesNo If yes, describe the liner or attach a description.
	g.	Does the active sewage sludge unit have a leachate collection system?YesNo
	۶۰	If yes, describe the leachate collection system or attach a description. Also, describe the method used for
		leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:
		the same and provide the managers of the political politics for found and politics.
	1.	If you are more along the side of Company of the Co
	h.	If you answered no to either f or g, answer the following:
		Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface
	i.	disposal site?YesNo If yes, provide the actual distance in meters:
	1.	Remaining capacity of active sewage sludge unit, in dry metric tons: Articipated classics data for active sewage sludge unit if I was a constant of the const
		Anticipated closure date for active sewage sludge unit, if known: (MM/DD/YYYY)
		Provide with this application a copy of any closure plan developed for this active sewage sludge unit.
2.		ge Sludge from Other Facilities.
		wage sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo
	-	s, provide the following information for each such facility, attach additional sheets as necessary.
	a.	Facility name:
	b.	Facility contact:
		Title:
		Phone: ()
	C.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	d.	List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other
		federal, state or local permits that regulate the facility's sewage sludge management practices:
		Permit Number: Type of Permit:
	e.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?
		Class AClass BNeither or unknown
	f.	Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to
		reduce pathogens in sewage sludge:

FACILITY NAME: Elysian Heights STP

PERMIT NUMBER: VA0092380

	g.	Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids)
	h.	None or unknown Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce vector attraction properties of sewage sludge:
	i.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by the other facility that are not identified in e - h above:
3.	Vecto	or Attraction Reduction.
	a.	Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit? Option 9 (Injection below land surface) Option 10 (Incorporation into soil within 6 hours) Option 11 (Covering active sewage sludge unit daily)
	b.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge:
l.	Grou	nd Water Monitoring.
	a.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water monitoring data otherwise available for this active sewage sludge unit?YesNo If yes, provide a copy of available ground water monitoring data. Also provide a written description of the well locations, the approximate depth to ground water, and the ground water monitoring procedures used to obtain these data.
	b.	Has a ground water monitoring program been prepared for this active sewage sludge unit? YesNo If yes, submit a copy of the ground water monitoring program with this application.
	c.	Have you obtained a certification from a qualified ground water scientist that the aquifer below the active sewage sludge unit has not been contaminated?YesNo If yes, submit a copy of the certification with this application.
5.	Site-S	Specific Limits.
	Are y	ou seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit? —No If yes, submit information to support the request for site-specific pollutant limits with this application.





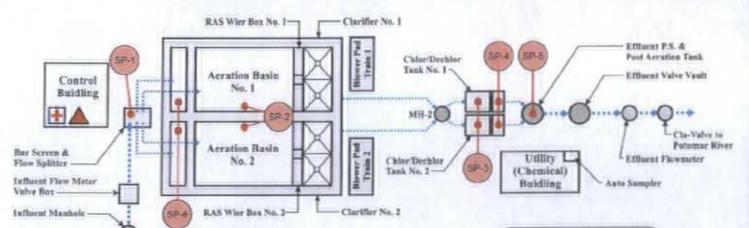














Effluent Pump Station and Vaults



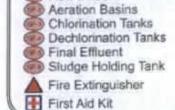
Dechlorination Tanks



10" Sanitary Sewer to Influent P.S.







LEGEND Raw Influent

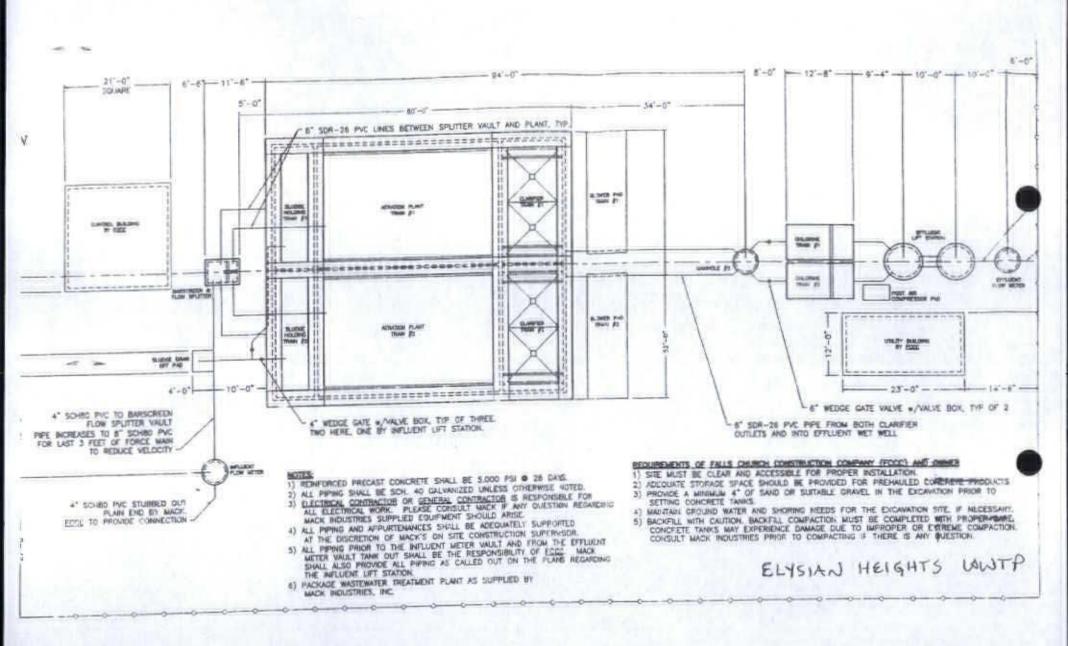


205.55

Plant Overview

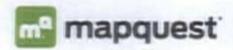
Figure 1 Elysian Heights WWTP - Process Flow Diagram





LOUDOUN WATER COMMUNITY SYSTEMS ELYSIAN HEIGHTS WATP OUTFALL LOCATION





Trip to:

44961 Loudoun Water Way

Ashbum, VA 20147 19.68 miles / 32 minutes Notes

	43254 Heavenly Cir, Leesburg, VA 20176-5039	
	Start out going south on Heavenly Cir toward Eagles Rest Dr. Map	0.04 M 0.04 Mi Total
1	Take the 1st right onto Eagles Rest Dr. Map If you reach the end of Heavenly Cir you've gone about 0.8 miles too far	0.3 M 0.4 Mi Total
4	Take the 2nd left onto Elysian Dr. Map Elysian Dr is just past Village Green Dr If you are on Eagles Rest Dr and reach Arcadian Dr you've gone a little too far	0.4 Mi 0.8 Mi Total
4	4. Turn left onto St Clair Ln. Map	0.4 M 1.2 Mi Total
2	5: Turn right onto Lucketts Rd / VA-662. Map	2,1 M 3.3 Mi Total
41	6. Turn left onto James Monroe Hwy / US-15 S. Map If you are on Stumptown Rd and reach Newvalley Church Rd you've gone about 0 miles too far	5.5 M .6 8.8 Mi Total
5	7. Turn slight left onto US-15-BYP S / Leesburg Byp. Map US-15-BYP S is just past Little Spring Rd 15	2.6 Mi 11.4 Mi Total
11	8. Merge onto VA-7 E toward Tysons Corner. Map	6.1 M i 17.5 Mi Total
11	9. Merge onto Loudoun County Pky / VA-607 S toward VA-267. Map	2.0 M i 19.5 Mi Total
4	10. Turn left onto Aquiary Way. Map Aquiary Way is 0.9 miles past Marblehead Dr If you reach Gloucester Pky you've gone about 0.2 miles too far	0.09 Mi 19.6 Mi Total
4	11. Turn left onto Loudoun Water Way. Map	0.1 Mi 19.7 Mi Total

12. 44961 LOUDOUN WATER WAY is on the right. Map.



44961 Loudoun Water Way, Ashburn, VA 20147

Total Travel Estimate: 19.68 miles - about 32 minutes

BOOK TRAVEL with mapquest (877)-577-5766



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